

CLAIMS

1. An operation management system for a mobile object comprising:

- 5 a data recorder including means for detecting behavior of a mobile object that satisfies a complex collecting condition in accordance with mobile object operation factors different from each other before and after occurrence of said behavior on the time series, and means for recording the detected behavior on a predetermined storage medium; and
- 10 condition setting means for setting said collecting condition, wherein said data recorder records only information relating to behavior compatible with the collecting condition set by said condition setting means on said storage medium according to the behavior.

2. The operation management system according to claim 1, 15 wherein said data recorder includes means for intermittently recording information relating to behavior that does not satisfy said collecting condition, and said data recorder records said information intermittently recorded on said storage medium as distinguished from information relating to behavior compatible with said collecting condition.

20 3. The operation management system according to claim 1, wherein said condition setting means sets said collecting condition in accordance with at least one of identification information of an operator of said mobile object, behavioral environment of said mobile object, and a behavioral history of said operator.

25 4. The operation management system according to claim 1, wherein said storage medium is a card-like storage medium that is

classified in accordance with at least one of identification information of said mobile object, identification information of an operator that operates said mobile object, and behavioral environment of said mobile object, and that is generated on a classification-by-classification basis.

- 5 ~~5~~. An operation management system for a mobile object comprising:

means for detecting behavior of a mobile object before and after occurrence of said behavior on the time series when the behavior of said mobile object satisfies a predetermined collecting condition, and for
10 intermittently detecting the behavior of said mobile object when the behavior of said mobile object dissatisfies said collecting condition;

means for recording information relating to the behavior detected on the time series and information relating to the behavior intermittently detected on a predetermined storage medium as distinguished from each
15 other; and

means for reproducing operation circumstances of the corresponding mobile object based on each information recorded on said storage medium.

- ~~6~~. A data recorder comprising:
20 a sensor section for detecting behavior of a mobile object on the time series; and

recording means for determining the presence or absence of occurrence of a specific behavior in the behavior of the corresponding mobile object detected by said sensor section in accordance with a
25 complex behavioral condition, which is a behavioral condition for determining said behavior as the specific behavior and which conforms to

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mobile object operation factors different from each other, and for recording information relating to the specific behavior of the corresponding mobile object in accordance with occurrence of said specific behavior on a predetermined storage medium.

5 7. The data recorder according to claim 6, wherein said specific behavior is dangerous behavior, and said recording means determines the presence or absence of occurrence of said dangerous behavior based on compatibility between a condition pattern that fixes the corresponding dangerous behavior and said behavior pattern detected
10 by said sensor section, and said recording means records information of the corresponding behavior when said dangerous behavior occurs.

 8. The data recorder according to claim 6, wherein said recording means intermittently records information relating to the behavior of the corresponding mobile object on said storage medium as
15 distinguished from information relating to said specific behavior when no specific behavior occurs.

 9. The data recorder according to claim 6, wherein said storage medium is a card-like storage medium that is classified in accordance with at least one of identification information of said mobile
20 object, identification information of an operator of said mobile object, and behavioral environment of said mobile object, and that is generated on a classification-by-classification basis, and at least said behavioral condition is recorded on said card-like storage medium.

 10. A behavior analyzer for a mobile object comprising:
25 condition setting means for setting a complex collecting condition which is a collecting condition for collecting information relating to a

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specific behavior of the mobile object and which is based on mobile object operation factors different from each other on a predetermined storage medium; and

analyzing means for reading recorded information from said
5 storage medium on which information relating to behavior of the mobile object compatible with said set collecting condition is recorded to analyze the behavioral content of the corresponding mobile object from said read information.

11. The behavior analyzer according to claim 10, wherein said
10 analyzing means reads information, which is different from information relating to said specific behavior and which is intermittently recorded according to behavior other than said specific behavior, from said storage medium, and analyzes the behavioral content of the corresponding mobile object in accordance with information.

15 ~~12.~~ A behavior analyzer for a mobile object comprising:
collecting condition setting means for setting a complex collecting condition which is a collecting condition for collecting information relating to a specific behavior of the mobile object and which is based on mobile object operation factors different from each other on a
20 predetermined storage medium; and

analyzing means for reading said information from a predetermined storage medium on which information relating to the specific behavior of said mobile object is recorded to compare said read information with a condition pattern for specifying a predetermined
25 behavioral pattern and to analyze the behavioral content of the corresponding mobile object.

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setting a complex collecting condition, which is a collecting
5 condition for collecting information relating to a specific behavior of the
mobile object and which is based on mobile object operation factors
different from each other, on a predetermined storage medium;

analyzing the behavioral content of the corresponding mobile object from said read information.

setting a first collecting condition for collecting information relating to specific behavior of a mobile object and a second collecting condition for collecting information relating to normal behavior other than said specific behavior on a predetermined storage medium;

analyzing the behavioral content of the corresponding mobile
25 object from said read information.

15. An operation tendency analyzing method for a mobile object

the second step of recording information relating to the specific behavior of the corresponding mobile object on a predetermined storage medium in accordance with occurrence of said specific behavior; and

the third step of analyzing an operation tendency of the

0 corresponding mobile object based on information recorded on said storage medium.

16. The operation tendency analyzing method according to claim 15, wherein said second step includes the sub-step of recording information relating to said specific behavior before and after occurrence of the corresponding behavior on said storage medium on the time series and intermittently recording information relating to the behavior of said mobile object on said storage medium when no said specific behavior occurs, and said third step includes the sub-step of analyzing a complex operation tendency of the corresponding mobile object based on said recorded information.

17. The operation tendency analyzing method according to claim 15, wherein said third step includes the sub-step of obtaining a statistical operation tendency from information recorded on said storage medium intermittently, obtaining a difference between said statistical operation tendency and information recorded on said storage medium on the time series, and analyzing a complex operation tendency of the

18. The operation tendency analyzing method according to claim 15, wherein said third step includes the sub-step of analyzing said operation tendency based on condition information set in accordance with at least one of identification information of an operator of said mobile object, behavioral environment of said mobile object, and behavioral history of said operator.

19. The operation tendency analyzing method according to claim 15, wherein said third step includes the sub-step of analyzing said
10 operation tendency based on complex condition information set in accordance with a plurality of mobile object operation factors different from each other.